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- ☒ 1. Document ID: US 4170565 A      Relevance Rank: 52

L1: Entry 4 of 4      File: USPT      Oct 9, 1979

US-PAT-NO: 4170565

DOCUMENT-IDENTIFIER: US 4170565 A

TITLE: Substrate article for cleaning fabrics

DATE-ISSUED: October 9, 1979

**INVENTOR-INFORMATION:**

NAME	CITY	STATE	ZIP CODE	COUNTRY
Flesher; Daniel J.	Springdale	OH	N/A	N/A
Kingry; Gary W.	Cincinnati	OH	N/A	N/A

US-CL-CURRENT: 510/297; 428/195, 428/212, 428/218, 428/305.5,  
442/102, 442/115, 510/330, 510/331, 510/348, 510/351, 510/352,  
510/519, 510/520

**ABSTRACT:**

An article useful in a process for cleaning fabrics utilizing a water-insoluble substrate, having specifically defined air permeability and surface area characteristics, is disclosed. This article is added to the automatic washer at the beginning of its laundering cycle and provides excellent cleaning for fabrics washed therein. A method for cleaning fabrics, using these articles, is also disclosed.

4 Claims, 0 Drawing figures Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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- ☐ 2. Document ID: US 4624890 A      Relevance Rank: 52

L1: Entry 3 of 4      File: USPT      Nov 25, 1986

US-PAT-NO: 4624890

DOCUMENT-IDENTIFIER: US 4624890 A

TITLE: Article suitable for wiping surfaces

DATE-ISSUED: November 25, 1986

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lloyd; John	Merseyside	N/A	N/A	GB2
Rennie; George K.	Merseyside	N/A	N/A	GB2

US-CL-CURRENT: 442/93; 15/104.93, 252/88.2, 427/243, 427/389.9,  
427/392, 428/409, 428/913, 442/121, 442/153, 510/181, 510/238,  
510/475

## ABSTRACT:

A wiping cloth or similar article especially suitable for wiping glossy hard surfaces to give a streak-free result comprises a flexible absorbent substrate of fibrous material, having a base weight of at least 50 g/m.sup.2 and a thickness of at least 0.5 mm, advantageously consisting at least partially of natural cellulosic fibres, treated with a cationic polyacrylamide to enhance its soil capture capability, and carrying a fully formulated liquid cleaning composition.

21 Claims, 0 Drawing figures Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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☐ 3. Document ID: US 4740326 A      Relevance Rank: 52

L1: Entry 2 of 4

File: USPT

Apr 26, 1988

US-PAT-NO: 4740326

DOCUMENT-IDENTIFIER: US 4740326 A

TITLE: Soil release polymer coated substrate containing a laundry detergent for improved cleaning performance

DATE-ISSUED: April 26, 1988

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hortel; Thomas C.	Cincinnati	OH	N/A	N/A
Clauss; Allen D.	Cincinnati	OH	N/A	N/A
Williamson; Leonard	Cincinnati	OH	N/A	N/A

US-CL-CURRENT: 510/295; 15/104.93, 427/242, 427/393.4, 510/299, 510/300, 510/322, 510/473, 510/475, 510/515, 510/518, 510/519

## ABSTRACT:

The present invention relates to improved laundry cleaning products and methods comprising the use of a soil release polymer coated substrate and a laundry detergent composition contained by the coated substrate for improved soil release and cleaning performance.

13 Claims, 3 Drawing figures Exemplary Claim Number: 1  
Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw Desc	Image
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☐ 4. Document ID: US 4987632 A      Relevance Rank: 52

L1: Entry 1 of 4

File: USPT

Jan 29, 1991

US-PAT-NO: 4987632

DOCUMENT-IDENTIFIER: US 4987632 A

TITLE: Wiping article

DATE-ISSUED: January 29, 1991

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rowe; Gavin B.	Northants	N/A	N/A	GB2
Smith; Andrew N.	Northants	N/A	N/A	GB2
Wooten; Alan	Northants	N/A	N/A	GB2

US-CL-CURRENT: 15/104.93; 15/209.1

## ABSTRACT:

A substantially dry-to-the-touch wiping article which is suitable for use in cleaning soiled surfaces in the presence of water, comprises an absorbent substrate, having a water-absorption capacity of at least 1g/g, in compound, the surface of the absorbent substrate having applied thereon a moisture barrier to cover at least 10% of the total area of each side of the sheet in such a manner that the moisture barrier on one side coincides with the moisture barrier on the opposite side, so as to form a sandwich enclosing at least 10% of the area of the absorbent substrate impregnated with detergent active compound.

14 Claims, 5 Drawing figures Exemplary Claim Number: 1  
Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Draw Desc	Image
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and (nonwoven or unwoven)

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USPT	detergent same impregnated same article and (nonwoven or unwoven)	6	<a href="#">L5</a>
USPT	detergent impregnated same article and (nonwoven or unwoven)	1	<a href="#">L4</a>
DWPI	detergent impregnated same article and (nonwoven or unwoven)	0	<a href="#">L3</a>
DWPI	detergent impregnated article and (nonwoven or unwoven)	0	<a href="#">L2</a>
USPT	detergent impregnated article and (nonwoven or unwoven)	1	<a href="#">L1</a>

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- ☒ 1. Document ID: US 4987632 A Relevance Rank: 78

L1: Entry 1 of 1 File: USPT Jan 29, 1991

US-PAT-NO: 4987632

DOCUMENT-IDENTIFIER: US 4987632 A

TITLE: Wiping article

DATE-ISSUED: January 29, 1991

**INVENTOR-INFORMATION:**

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rowe; Gavin B.	Northants	N/A	N/A	GB2
Smith; Andrew N.	Northants	N/A	N/A	GB2
Wooten; Alan	Northants	N/A	N/A	GB2

US-CL-CURRENT: 15/104.93; 15/209.1

**ABSTRACT:**

A substantially dry-to-the-touch wiping article which is suitable for use in cleaning soiled surfaces in the presence of water, comprises an absorbent substrate, having a water-absorption capacity of at least 1g/g, in compound, the surface of the absorbent substrate having applied thereon a moisture barrier to cover at least 10% of the total area of each side of the sheet in such a manner that the moisture barrier on one side coincides with the moisture barrier on the opposite side, so as to form a sandwich enclosing at least 10% of the area of the absorbent substrate impregnated with detergent active compound.

14 Claims, 5 Drawing figures Exemplary Claim Number: 1  
Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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Terms	Documents
detergent impregnated article and (nonwoven or unwoven)	1

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L6: Entry 2 of 2

File: DWPI

Oct 1, 1976

DERWENT-ACC-NO: 1976-91048X

DERWENT-WEEK: 197649

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TITLE: Limiting the foaming of detergent compsns. in washing machines - by adding a support such as non woven fabric impregnated with antifoam agent

PRIORITY-DATA: 1975FR-0003641 (January 31, 1975)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
FR 2299447 A	October 1, 1976	N/A	000	N/A

INT-CL (IPC): C11D 17/04; D06L 1/04

ABSTRACTED-PUB-NO: FR 2299447A

## BASIC-ABSTRACT:

Articles for limiting the foaming of detergent compsns. in washing machines comprise (a) a water-insol., non-divided support capable of physically absorbing an antifoam agent and (b) an amt. of absorbed antifoam agent of 1-200 wt. % on the support. Pref. the support is a (nonwoven) fabric made from natural, artificial or synthetic fibres such as cellulosic fibres, vinyl fibres, cotton, etc., impregnated with 20-80% of an antifoam agent such as an organopolysiloxane with R-SiO-R' units in which R and R' are <7C hydrocarbon groups, esp. dimethylsiloxane. The antifoam article is generally added in a quantity sufficient to give an amt. of antifoam agent of 0.05-5 wt. % on wt. of detergent compsn. present.